## PUBLIC WORKS & UTILITIES COMMITTEE

13-0100R

RESOLUTION AUTHORIZING A CONTRACT WITH LHB, INC. FOR PROFESSIONAL ENGINEERING SERVICES FOR THE DESIGN FOR FLOOD REPAIR OF BRIDGE NO. L6115 AND ADJACENT RETAINING WALLS, SKYLINE PARKWAY AT CHESTER CREEK, IN THE AMOUNT OF \$88,240.

## CITY PROPOSAL:

RESOLVED, that the proper city officials are hereby authorized to enter into an agreement with LHB, Inc. For professional engineering services related to the design of flood repair of Bridge No. L6115 and its adjacent retaining walls, Skyline Parkway at Chester Creek, in an amount not to exceed \$88,240, payable from Disaster Recovery Fund 225, Department/Agency 125 (Finance), Organization 1803 (Roads and Bridges), Object 5303 (Engineering Services), city project no. 1177, S.P. 118-179-004, requisition no. 13-0183.

Approved:

Department Director

Purchasing Agent

Approved for presentation to council:

Chief Administrative Office

Approved as to form:

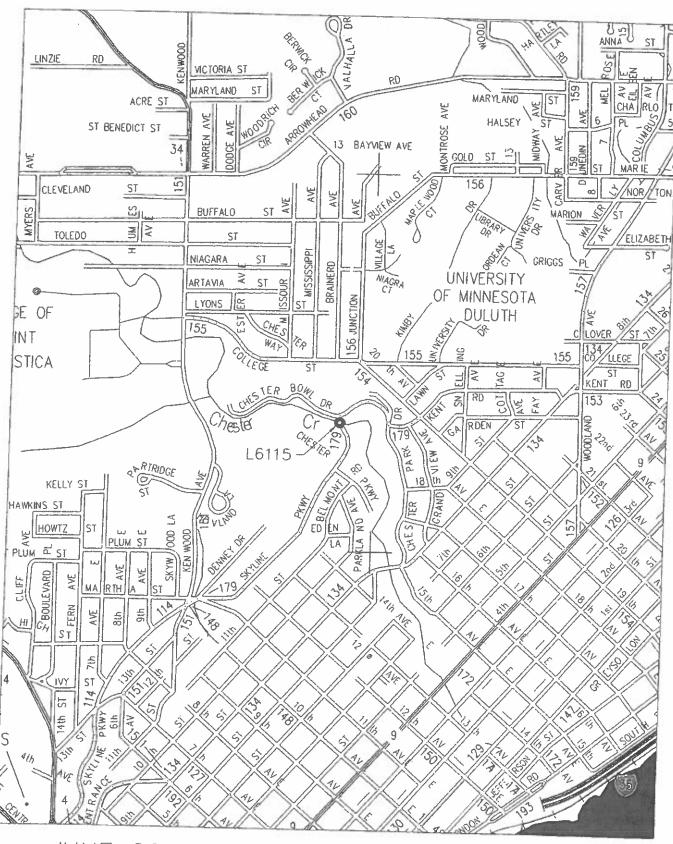
Attorney

Approved:

ENG PTM: jh 2/14/2013

STATEMENT OF PURPOSE: This resolution will authorize a contract for professional

engineering services for the design of flood repair of Bridge No. L6115, Skyline Parkway at Chester Creek. Costs to be reimbursed by state of Minnesota disaster funding. Disaster Recovery Fund 225, Department/Agency 125 (Finance), Organization 1803 (Roads and Bridges), Object 5303 (Engineering Services), city project no. 1177, S.P. 118-179-004, FEMA flood site no. 539, requisition no. 13-0183.



JUNE 2012 FLOOD DAMAGE ASSESSMENT BR. L6115



21 West Superior Street, Suite 500 Duluth, Minnesota 55802 218 727-8446 Fax 218 727-8456 www.LHBcorp.com

February 12, 2013

Patrick Mlakar City Engineering 211 City Hall Duluth, MN 55802

SKYLINE PARKWAY RETAINING WALLS AT BRIDGE L6115 JUNE 2012, FLOOD REPAIRS SCOPING, PRELIMINARY AND FINAL DESIGN WORKSCOPE AND PROPOSAL

Enclosed please find our work task and financial proposal for the above defined project. We have prepared our proposal to include the following workscope, which as we understand the project today should be the necessary workscope to bring the project from concept phase through bidding.

Task 1: Project Development- Gather existing information concerning the project; prepare funding submittals; and meetings and correspondence as required through the design of the project.

Task 2: Investigative Phase- Initial field/ site investigation, topographic site survey of the roadway, slopes and existing retaining wall features; coordination and hiring of geotechnical work scope; MnDNR permitting; consultation with MnDOT Cultural Resources Office and State Historic Preservation Office; and Federal ER Report preparation.

Task 3: Preliminary Design Phase- Preparation of preliminary layout and geometric plans for the project. The project has been broken into two regions- the Easterly Site (east of Bridge L6115) where extension of the existing concrete retaining wall is anticipated to be the solution to stabilize the slope; and the Westerly Site (West of Bridge L6115) where it is anticipated the in place large dry stack stone retaining wall will be required to be completely disassembled due its currently precarious condition with numerous stones displaced and/ or missing. For reconstruction of the wall and in order to maintain the walls unique dry stack properties while meeting design code requirements it is anticipated a cantilever concrete backing retaining wall will first be built and the dry stack wall then reconstructed in front of the new concrete retaining wall with associated connections and interface materials between the two.

Task 4: Final Design/ Plans- Preparation of final design plans for the project. Plans will be prepared in accordance with City of Duluth, MnDOT and Federal plan requirements and will be submitted through MnDOT to include review, corrections and approval.

Duluth, MN

Minneapolis, MN

Patrick Mlakar February 12, 2013 Page 2

Task 5: Project Coordination- Preparation of construction cost estimates through the design phase and preparation of bid special provisions.

We appreciate the opportunity to prepare this proposal and assist the City with this project. Upon review if you have any questions please do not hesitate to call.

LHB

Jung O Fratur

JOSEPH D. LITMAN PE, PROJECT MANAGER

## FEE ESTIMATE WORKSHEET

Project Name

Skyline Parkway Retaining Walls at Bridge L6115

LHB Labor Summary CI

Client Preparer

City of Duluth



Project Breakdown - Task Description  Task 1 - Project Development		Project	P5 Project	Proje		P13	T3	T8	A1	Tol
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## **COST ESTIMATE**

DU-13-00690

Skyline Pkwy - Chester Creek Retaining Walls

LHB, Inc.

Joseph Litman

21 West Superior Street, Suite 500

Duluth, MN 55802-3006

Service Desc: Geotechnical Evaluation

Work Location: Skyline Parkway

Duluth, MN

Estimator: Joseph C Butler

Description:		Quantity:		Unit Price:	Extension:	
Phase:Geotechnical Evaluation	<del></del>					
Start Date: 3/7/2013 End Date: 4/7/2013						
Task: Drilling Services						
Flaggers		30.00	Hours	55.00	1,650.00	
Truck-or skid mounted drill rig, per hour		15.00	Hours	215.00	3,225.00	
Warning signed, billed at cost plus 15%		1.00	Each	300.00	300.00	
NQ Diamond coring bit wear, per foot		10.00	Feet	15.00	150.00	
Bore hole abandonment materials, per foot		135.00	Feet	1.50	202.50	
Mobilization		1.00	Each	650.00	650.00	
Daily Mobilization & Support Vehicles	2.00	Days	325.00		000.00	
		Dr	illing Services T	otal:	6,177.50	
Task: Staking and Utility Clearance					·	
Site layout and utility clearance		2.00	Hours	100.00	200.00	
	Stak		king and Utility Clearance Total:			
Task: Engineering Consulting Services						
Project Engineer		10.00	Hours	140.00	1,400.00	
Senior Engineer		1.50	Hours	155.00	232.50	
Project Assistant		3.00	Hours	75.00	225.00	
Soil Boring location sketch(to scale)		1.00	Each	140.00	140.00	
	Enginee	ring Consu	Ilting Services T	otal:	1,997.50	
	Geote	chnical E	valuation Tota	l:	8,375.00	
	Project Total:			8,375.00		